

Abstract of the DisclosurePROTECTIVE RELAY WITH SYNCHRONIZED PHASOR MEASUREMENT  
CAPABILITY FOR USE IN ELECTRIC POWER SYSTEMS

The relay system obtains voltage and current values from a power line and uses a first sampling element to sample the voltage and current values at selected intervals of time. The resulting sampled signals are used for power system-wide protection, control, monitoring and metering. The sampled signals are then resampled at a rate which is a selected multiple of the power system frequency. The results of the resampling are used by processing circuitry for protection functions including fault determinations.